

APPENDIX K

WEST RIVER WATERSHED

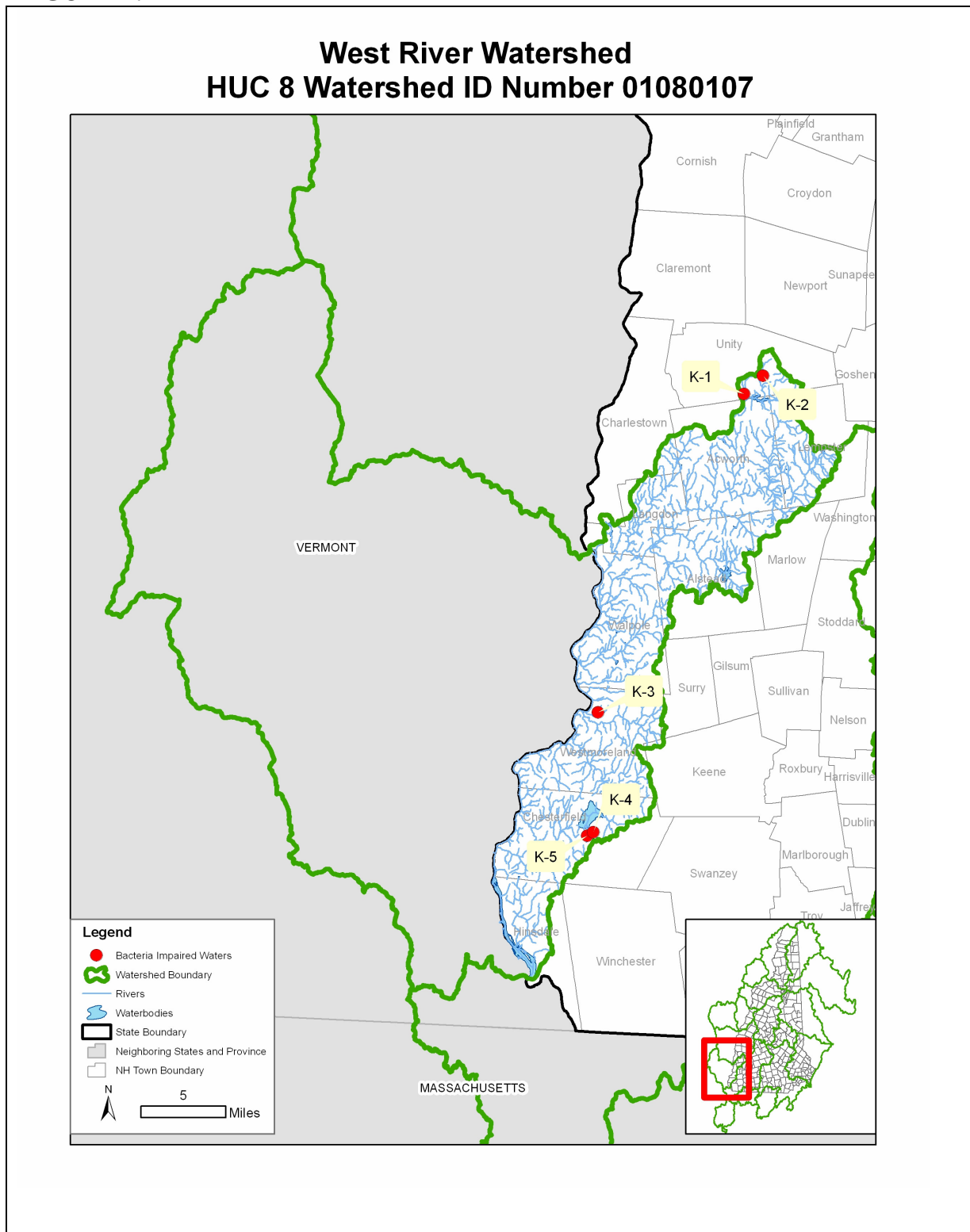
(HUC8: 01080107)

I. WATERSHED DESCRIPTION AND MAPS

This section of the Connecticut River Watershed covers an area of approximately 308 square miles on the Vermont-New Hampshire border in the southwest corner of New Hampshire. There are 12 New Hampshire towns located at least partially within the watershed which extends from Unity to Hinsdale, NH. As shown in Figure 1, the primary watercourse in the region is the Connecticut River which serves as the border between Vermont and New Hampshire. Notable mountains in the area are the Pisgah Range and numerous independent landforms. Lakes of notable size in the watershed include Spofford Lake and Lake Warren. Both are located in the eastern half of the watershed and not along the course of the Connecticut River.

Based on the 2012 303(d) list, five assessment units (AU) in this watershed is listed as being impaired for bacteria. The location of the bacteria impaired surface water AUs are shown on Figure 1 as a red circles. Item K1 presents the percent reduction needed to meet each water quality criterion (and TMDL), based on the highest recorded bacteria measurement that exceeds the criterion for the AU, as well as the bacteria data collected in the impaired AU that was used to list the AU as impaired on the 2012 303(d) list.

FIGURE 1:



II. WATER QUALITY DATA TABLES

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K1: Cold River

AUID NHRIV801070201-01

Characteristics: freshwater, class B designation, primary contact recreation.

Impairment: *E coli*

Water Quality Criteria & TMDL for *E coli*

Single sample: 406 CTS/100ML

Geometric mean: 126 CTS/100mL

Percent reduction to meet TMDL:

Single sample: 66%

Geometric mean: no data

Data: NHDES EMD, 2012 303(d)

Single sample *E coli* results (CTS/100ML)

Station Name	Station ID	Date	Result
COLD RIVER	CREACWCPR	10/1/10	340
COLD RIVER	CREACWW	7/19/06	80
COLD RIVER	CREACWW	8/2/07	20
COLD RIVER	CREACWW	7/1/09	210
COLD RIVER	CREACWW	9/1/09	35
COLD RIVER	CREACWW	7/12/10	2000
COLD RIVER	CREACWW	6/7/11	20
COLD RIVER	CREACWW	10/1/10	930

Shaded cells indicate exceedance of water quality criteria

K2: Unnamed Brook to Crescent Lake from Northeast Inlet

AUID NHRIV801070201-03

Characteristics: freshwater, class B designation, primary contact recreation.

Impairment: *E coli*

Water Quality Criteria & TMDL for *E coli*

Single sample: 406 CTS/100ML

Geometric mean: 126 CTS/100mL

Percent reduction to meet TMDL:

Single sample: 98%

Geometric mean: no data%

Data: NHDES EMD, 2012 303(d)

Single sample *E coli* results (CTS/100ML)

Station Name	Station ID	Date	Result
UNNAMED BROOK TO CRESCENT LAKE	CREACW1	8/2/07	50
UNNAMED BROOK TO CRESCENT LAKE	CREACW1	7/1/09	760
UNNAMED BROOK TO CRESCENT LAKE	CREACW1	9/1/09	11
UNNAMED BROOK TO CRESCENT LAKE	CREACW1	7/12/10	540
UNNAMED BROOK TO CRESCENT LAKE	CREACW1	6/7/11	40
UNNAMED BROOK TO CRESCENT LAKE	CREACW1	10/1/10	610
UNNAMED BROOK TO CRESCENT LAKE	CREACWNSR	10/1/10	1210

Shaded cells indicate exceedance of water quality criteria

K3: Unnamed Brook to Connecticut River

AUID NHRIV801070502-04

Characteristics: freshwater, class B designation, primary contact recreation.

Impairment: *E coli*

Water Quality Criteria & TMDL for *E coli*

Single sample: 406 CTS/100ML

Geometric mean: 126 CTS/100mL

Percent reduction to meet TMDL:

Single sample: 98%

Geometric mean: no data

Data: NHDES EMD, 2012 303(d)

Single sample *E coli* results (CTS/100ML)

Station Name	Station ID	Date	Result
UNNAMED BROOK TO CONNETICUT RIVER	2437-001	7/5/11	200
UNNAMED BROOK TO CONNETICUT RIVER	2437-002	7/5/11	2000
UNNAMED BROOK TO CONNETICUT RIVER	2437-002	9/7/11	20000
UNNAMED BROOK TO CONNETICUT RIVER	2437-003	7/5/11	930
UNNAMED BROOK TO CONNETICUT RIVER	2437-004	9/7/11	3100
UNNAMED BROOK TO CONNETICUT RIVER	2437-005	9/7/11	2300
UNNAMED BROOK TO CONNETICUT RIVER	2437-006	9/7/11	640
UNNAMED BROOK TO CONNETICUT RIVER	2437-007	9/7/11	1640

Shaded cells indicate exceedance of water quality criteria

K4: Wases Grove Inlet

AUID NHRIV801070503-07

Characteristics: freshwater, class A designation, primary contact recreation.

Impairment: *E coli*

Water Quality Criteria & TMDL for *E coli*

Single sample: 153 CTS/100ML

Geometric mean: 47 CTS/100mL

Percent reduction to meet TMDL:

Single sample: 62%

Geometric mean: 17%

Data: NHDES EMD, 2012 303(d) list

Single sample *E coli* results (CTS/100ML)

Station Name	Station ID	Date	Result
WASES GROVE INLET	SPOCHEW	6/27/06	70
WASES GROVE INLET	SPOCHEW	7/25/06	10
WASES GROVE INLET	SPOCHEW	8/22/06	160
WASES GROVE INLET	SPOCHEW	6/21/07	5
WASES GROVE INLET	SPOCHEW	7/24/07	70
WASES GROVE INLET	SPOCHEW	8/22/07	10
WASES GROVE INLET	SPOCHEW	6/24/08	60
WASES GROVE INLET	SPOCHEW	7/29/08	80
WASES GROVE INLET	SPOCHEW	8/26/08	80
WASES GROVE INLET	SPOCHEW	6/23/09	10
WASES GROVE INLET	SPOCHEW	7/21/09	20
WASES GROVE INLET	SPOCHEW	8/18/09	50
WASES GROVE INLET	SPOCHEW	6/24/10	90
WASES GROVE INLET	SPOCHEW	7/22/10	5
WASES GROVE INLET	SPOCHEW	8/16/10	400
WASES GROVE INLET	SPOCHEW	6/21/11	50
WASES GROVE INLET	SPOCHEW	7/26/11	160
WASES GROVE INLET	SPOCHEW	9/1/11	80

Shaded cells indicate exceedance of water quality criteria

Geometric mean *E. coli* results (CTS/100ML)

Station Name	Date	Result
WASES GROVE INLET	8/22/06	48.20
WASES GROVE INLET	8/18/09	21.54
WASES GROVE INLET	8/16/10	56.46

Shaded cells indicate exceedance of water quality criteria

K5: Camp Spofford Inlet – Unnamed Brook

AUID NHRIV801070503-08

Characteristics: freshwater, class A designation, primary contact recreation.

Impairment: *E coli*

Water Quality Criteria & TMDL for *E coli*

Single sample: 153 CTS/100ML

Geometric mean: 47 CTS/100mL

Percent reduction to meet TMDL:

Single sample: 85%

Geometric mean: 72%

Data: NHDES EMD, 2012 303(d) list

Single sample *E coli* results (CTS/100ML)

Station Name	Station ID	Date	Result
CAMP SPOFFORD INLET – UNNAMED BROOK	SPOCHEC	6/27/06	40
CAMP SPOFFORD INLET – UNNAMED BROOK	SPOCHEC	7/25/06	290
CAMP SPOFFORD INLET – UNNAMED BROOK	SPOCHEC	8/22/06	400
CAMP SPOFFORD INLET – UNNAMED BROOK	SPOCHEC	6/21/07	10
CAMP SPOFFORD INLET – UNNAMED BROOK	SPOCHEC	7/24/07	5
CAMP SPOFFORD INLET – UNNAMED BROOK	SPOCHEC	6/24/08	160
CAMP SPOFFORD INLET – UNNAMED BROOK	SPOCHEC	7/29/08	110
CAMP SPOFFORD INLET – UNNAMED BROOK	SPOCHEC	8/26/08	5
CAMP SPOFFORD INLET – UNNAMED BROOK	SPOCHEC	6/23/09	20
CAMP SPOFFORD INLET – UNNAMED BROOK	SPOCHEC	7/21/09	10
CAMP SPOFFORD INLET – UNNAMED BROOK	SPOCHEC	8/18/09	5
CAMP SPOFFORD INLET – UNNAMED BROOK	SPOCHEC	6/24/10	240
CAMP SPOFFORD INLET – UNNAMED BROOK	SPOCHEC	6/21/11	150
CAMP SPOFFORD INLET – UNNAMED BROOK	SPOCHEC	7/26/11	1010
CAMP SPOFFORD INLET – UNNAMED BROOK	SPOCHEC	9/1/11	240

Shaded cells indicate exceedance of water quality criteria

Geometric mean *E. coli* results (CTS/100ML)

Station Name	Date	Result
CAMP SPOFFORD INLET – UNNAMED BROOK	8/22/06	166.79
CAMP SPOFFORD INLET – UNNAMED BROOK	8/18/09	10

Shaded cells indicate exceedance of water quality criteria